**Supplementary Table 2. Analysis for 20 markers that genotyped in the total samples**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Nearby** |  | **Total samples****(597 ASD/1,595 controls)** |
| **CHR** | **SNP** | **Position** | **Allele** | **Genes** |  | **ASD** | **Control** | **OR** | **(95% C.I.)** | **P-value** |
| 1 | rs12082358 | 54,156,624  | C | ***GLIS1*** |  | 0.36  | 0.30  | 1.3  | (1.1-1.5) | 2.2X10-04 |
| 1 | rs12080993 | 54,178,501  | A | ***GLIS1*** |  | 0.35  | 0.29  | 1.3  | (1.1-1.5) | 1.5X10-04 |
| 2 | rs3916984 | 157,445,840  | A | *GPD2a* |  | 0.47  | 0.41  | 1.3  | (1.1-1.5) | 3.1X10-04 |
| 2 | rs13014164 | 170,271,231  | C | *LRP2/BBS5 a* |  | 0.07  | 0.04  | 1.7  | (1.3-2.3) | 8.6X10-05 |
| 3 | rs3914502 | 174,564,602  | A | ***NAALADL2*** |  | 0.46  | 0.38  | 1.4  | (1.2-1.6) | 3.5X10-06 |
| 3 | rs2222447 | 174,580,826  | A | ***NAALADL2*** |  | 0.15  | 0.21  | 0.7  | (0.6-0.8) | 5.3X10-05 |
| 4 | rs7697680 | 55,245,541  | G | *PDGFRA a* |  | 0.10  | 0.07  | 1.5  | (1.2-1.9) | 9.2X10-04 |
| 5 | rs11741756 | 132,579,659  | A | ***FSTL4*** |  | 0.15  | 0.12  | 1.3  | (1.1-1.5) | 1.2X10-02 |
| 6 | rs13211684 | 51,175,486  | G |  |  | 0.25  | 0.21  | 1.3  | (1.1-1.5) | 2.5X10-03 |
| 8 | rs12543592 | 123,511,652  | G |  |  | 0.42  | 0.50  | 0.7  | (0.6-0.8) | 3.2X10-06 |
| 9 | rs10966205 | 24,095,607  | T |  | 　 | 0.39  | 0.33  | 1.3  | (1.2-1.5) | 2.9X10-05 |
| 9 | rs7026342 | 111,280,201  | C |  | 　 | 0.09  | 0.06  | 1.6  | (1.2-2.0) | 1.8X10-04 |
| 9 | rs7030851 | 111,281,164  | A |  |  | 0.09  | 0.06  | 1.6  | (1.3-2.0) | 1.4X10-04 |
| 10 | rs10763893 | 33,011,229  | A | ***C10orf68*** |  | 0.07  | 0.04  | 1.6  | (1.2-2.2) | 6.1X10-04 |
| 11 | rs12366025 | 29,148,890  | A |  |  | 0.16  | 0.13  | 1.3  | (1.1-1.6) | 3.8X10-03 |
| 11 | rs11030597 | 29,190,528  | G |  |  | 0.16  | 0.13  | 1.3  | (1.1-1.6) | 4.1X10-03 |
| 11 | rs7933990 | 29,208,679  | A |  |  | 0.16  | 0.12  | 1.3  | (1.1-1.6) | 2.5X10-03 |
| 11 | rs11030606 | 29,214,412  | A |  |  | 0.16  | 0.13  | 1.3  | (1.1-1.6) | 5.6X10-03 |
| 20 | rs17263514 | 14,046,551  | A | ***MACROD2*** |  | 0.23  | 0.19  | 1.2  | (1.0-1.4) | 1.4X10-02 |
| 20 | rs12479663 | 52,708,752  | C | *BCAS1/CYP24A1a* | 　 | 0.13  | 0.09  | 1.5  | (1.3-1.9) | 4.0X10-05 |

**CHR:** chromosome; **SNP:** single nucleotide polymorphism; **OR (95% CI):** odds ratios and 95% confidence interval. Genes in bold: markers are in gene regions. a The nearby gene is within 100 kb away.